PLUMBING GENERAL NOTES

- EXISTING PIPING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.Y. EXISTING PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
- ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING PLUMBING FIXTURES AS REQUIRED. PLUMBING IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING TO FIXTURES AND EQUIPMENT NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
- THE OWNER RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS.

 COORDINATE WITH OWNER AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO OWNERS DESIGNATED STORAGE AREA.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND PLUMBING ROUGH—IN LOCATIONS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL HANDICAPPED FIXTURES.
- . ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- THE PLUMBING DETAILS SHALL BE CONSIDERED AS A PART OF THE CONTRACT DOCUMENTS. THESE DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- . DO NOT SCALE DRAWINGS.

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- . WATER PIPING SHALL BE ROUTED "AROUND" ELECTRICAL ROOMS..
- 10. PROVIDE SHEET METAL DRAIN PAN UNDER GRAVITY OR PUMPED DRAIN PIPING WHERE PIPING OCCURS ABOVE KITCHENS, FOOD SERVICE PREP, OR FOOD SERVICE CORRIDORS. PIPE 3/4" DRAIN FROM DRAIN PAN TO OVER NEAREST FLOOR SINK.
- 11. PROVIDE SHEET METAL DRAIN PAN UNDER PIPING WHERE PIPING OCCURS ABOVE ANY ELECTRICAL ROOMS, INFORMATION TECHNOLOGY (I/T) CENTER, OR ELECTRICAL SWITCH GEAR. PIPE 3/4" DRAIN FROM DRAIN PAN TO OVER NEAREST FLOOR SINK.
- 12. INSULATED PIPING EXPOSED TO VIEW THROUGHOUT THE FACILITY (EXCLUDING JANITORS CLOSETS AND MECHANICAL ROOMS) SHALL B COVERED AND FINISHED WITH PVC JACKET SYSTEM USING 30 MIL THICK JACKET. INSTALL PER MANUFACTURER'S INSTRUCTIONS WITH SEAM ON TOP OF PIPE SO AS TO NOT BE VISIBLE FROM OCCUPIED SPACE.
- SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE 2009 IBC, VA SPECIFICATIONS SECTION 130541, AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF NEVADA.
- COORDINATE SPRINKLER/STANDPIPE DRAIN REQUIREMENTS AND LOCATIONS WITH FIRE PROTECTION DIVISION OF WORK.

PROVIDE TRAP PRIMERS FOR AREAS OF INFREQUENT USE, INCLUDING FLOOR DRAINS IN RESTROOMS AND MECHANICAL ROOMS, WITH DISTRIBUTION UNITS FOR MULTIPLE FLOOR DRAINS AND FLOOR SINKS. TRAP PRIMER SHALL BE ACCESSIBLE AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. PROVIDE LINE SIZE SHUT—OFF VALVE AHEAD OF EACH TRAP PRIMER AND PRIMER LINE SHALL BE INSTALLED ON A COLD WATER LINE LESS THAN 2" DIAMETER. ALL ELECTRONIC TYPE TRAP PRIMERS SHALL HAVE 4 TO 30 OUTLETS, VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVERRIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS. PROVIDE 3/4" SHUT—OFF VALVE ON INLET. (ELECTRONIC TRAP PRIMERS TO BE LOCATED IN MECHANICAL ROOMS AND WHERE NOTED. PROVIDE RECESSED MOUNT IN STUD WALLS AND SURFACE MOUNT ON CONCRETE AND BLOCK WALLS.)

REFER TO FLOW CONTROL VALVE DETAIL FOR NOMINAL GPM AT EACH HOT WATER RETURN BRANCH LINE CONNECTION.

HOT WATER RETURN PIPING BRANCH LINES TO DROP DOWN IN WALL AND CONNECT TO HOT WATER SUPPLY AT STOPS, OR AT TEMPERING STATIONS. REFER TO DETAIL SHEET FOR DIAGRAMS SHOWING CONNECTIONS.

PLUMBING RISERS, DRAIN STACKS, AND BRANCH PIPING OFF MAINS SHALL BE COORDINATED WITH MECHANICAL DUCTWORK, MECHANICAL PIPING, AND FIRE PROTECTION PIPING SYSTEMS.

9. INSTALL PIPING HIGH AS POSSIBLE. (AS IN THE CASE OF WAREHOUSE AREAS, IN ORDER TO ALLOW FOR SHELVING AND RACKING SYSTEMS OR OTHER SPECIAL CONDITIONS THAT MAY ARISE.).

20. PROVIDE A 6 MIL. POLYETHYLENE SLEEVE EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.

HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN THROTTLING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.

PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF 2009 UNIFORM PLUMBING CODE.

REFER TO MIXING VALVE DETAIL FOR LAVATORY/SINK TEMPERED WATER DETAIL. PROVIDE THERMOSTATIC TYPE MIXING VALVE AS INDICATED.

VENTS THROUGH ROOF SHALL BE MINIMUM 10'-0" FROM ANY OUTSIDE AIR INTAKES AND BUILDING OPENINGS.

PLUMBING SYMBOL LEGEND								
	(THIS IS A MASTER LE	GEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWING)						
ABBR	SYMBOL	DESCRIPTION						
	<u> </u>	SHEET NOTE						
	Δ	REVISION NUMBER						
S OR W		SOIL, WASTE OR SEWER BELOW GRADE OR FLOOR						
		SOIL, WASTE OR SEWER ABOVE GRADE OR FLOOR						
CWV	———CWV———	COMBINATION WASTE AND VENT						
SD	— SD —	STORM DRAIN BELOW GRADE OR FLOOR						
	SD	STORM DRAIN ABOVE GRADE OR FLOOR						
OSD	——OSD——	OVERFLOW STORM DRAIN BELOW GRADE OR FLOOR						
	OSD	OVERFLOW STORM DRAIN ABOVE GRADE OR FLOOR						
V		VENT						
SCW		SOFT COLD WATER						
SHW		SOFT HOT WATER BETURN						
SHWR	т	SOFT HOT WATER RETURN SOFT TEMPERED WATER						
STW STWR		SOFT TEMPERED WATER RETURN						
FCW		FILTERED COLD WATER						
PD		PUMPED DRAIN						
D D	——————————————————————————————————————	DRAIN						
P W	PW	PUMPED WASTE						
ICW	ICW	INDUSTRIAL COLD WATER						
A	——————————————————————————————————————	COMPRESSED AIR						
VAC		VACCUUM						
F		FIRE LINE						
CSP	CSP	COMBINATION STAND PIPE						
		PIPING BELOW GRADE WITH HEAT TRACE						
		PIPING ABOVE GRADE WITH HEAT TRACE						
		SOLENOID VALVE						
HP	+	HOSE BIBB						
RHB		RECESSED HOSE BIBBS						
		REDUCED PRESSURE BACKFLOW PREVENTER						
CO	Θ	CLEANOUT						
WCO	<u>⊢</u>	WALL CLEANOUT						
AD, OAD	0 / 6	AREA DRAIN, OVERFLOW AREA DRAIN						
FD	9/ 0	FLOOR DRAIN						
FS PD		FLOOR SINK/ABOVE PLANTER DRAIN						
DD		DECK DRAIN/ABOVE						
RD, ORD	<u> </u>	ROOF DRAIN, OVERFLOW ROOF DRAIN/ABOVE						
VTR	0	VENT THROUGH ROOF						
FDC	e-\$ e-[FIRE DEPARTMENT CONNECTION						
FSR	∞ —	FIRE SPRINKLER RISER						
SOV	 ₩	SHUT-OFF VALVE						
	—— % ——	BALANCING VALVE ASSEMBLY — SOV, CV, AND BV						
BV	—— & ——	BALANCING VALVE						
CV	—— <u>Ö</u> ——	CHECK VALVE						
PRV	——————	PRESSURE REDUCING VALVE						
	₽ -	RELIEF VALVE						
		STRAINER WITH BLOW-DOWN VALVE						
		FLEXIBLE PIPE CONNECTION UNION						
		PIPE TRANSITION						
PG	→	PRESSURE GAUGE						
TH		THERMOMETER						
WHA		WATER HAMMER ARRESTOR						
		PIPE DOWN						
		PIPE UP						
		PIPE TEE UP						
		PIPE TEE DOWN						
		PIPE CAP						
	×	ANCHOR						
		GUIDE						
		FLOW ARROW						
POC	0	POINT OF CONNECTION TO EXISTING						
POD	8	POINT OF DISCONNECTION FROM EXISTING						
711	· · · · · · · · · · · · · · · · · · ·	ZONE VALUE DOV						
ZV		ZONE VALUE BOX						
		UIPMENT TYPE ——PLAN UIPMENT NUMBER ——SHEET						
	, , ,	= EXISTING						
		= RELOCATE						

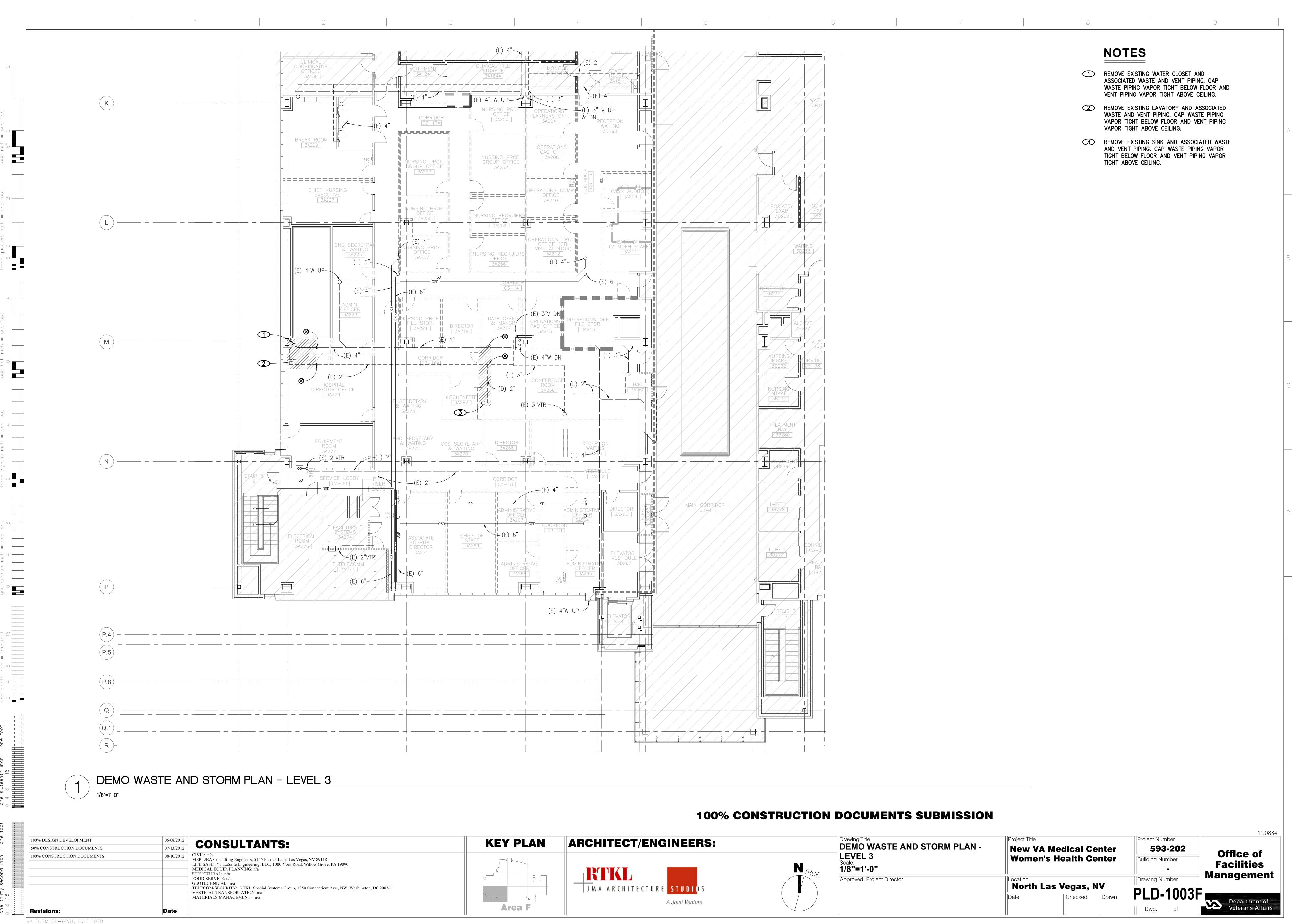
			SHEET INDEX
ISS	UE		
	-25-2013 OWNER'S REVIEW COMMENTS		
	98	SHEET NUMBER	SHEET DESCRIPTION
	• •	P-001	PLUMBING SHEET INDEX GENERAL NOTES SYMB AND ABBR. LIST
	•	PLD-1003F PPD-1000F	DEMO WASTE AND STORM PLAN — LEVEL 3 DEMO DOMESTIC WATER PLAN — BASEMENT LEVEL
	•	PPD-1000F	DEMO DOMESTIC WATER PLAN - BASEMENT LEVEL DEMO DOMESTIC WATER PLAN - LEVEL 2
	• •	PPD-1002F	DEMO DOMESTIC WATER PLAN — LEVEL 2 DEMO DOMESTIC WATER PLAN — LEVEL 3
	• •	PL-1003F	WASTE AND STORM PLAN - LEVEL 3
	•	PP-1000F	DOMESTIC WATER PLAN - BASEMENT LEVEL
	•	PP-1001F	DOMESTIC WATER PLAN — LEVEL 1
	•	PP-1002F	DOMESTIC WATER PLAN — LEVEL 2
	• •	PP-1003F	DOMESTIC WATER PLAN- LEVEL 3
	•	P-401	PLUMBING - DETAILS
	• •	P-402	PLUMBING - DETAILS
	• •	P-501	PLUMBING SCHEDULES
	•	P-601	DOMESTIC WATER FLOW DIAGRAM
	• •	P-602	MEDICAL GAS FLOW DIAGRAM

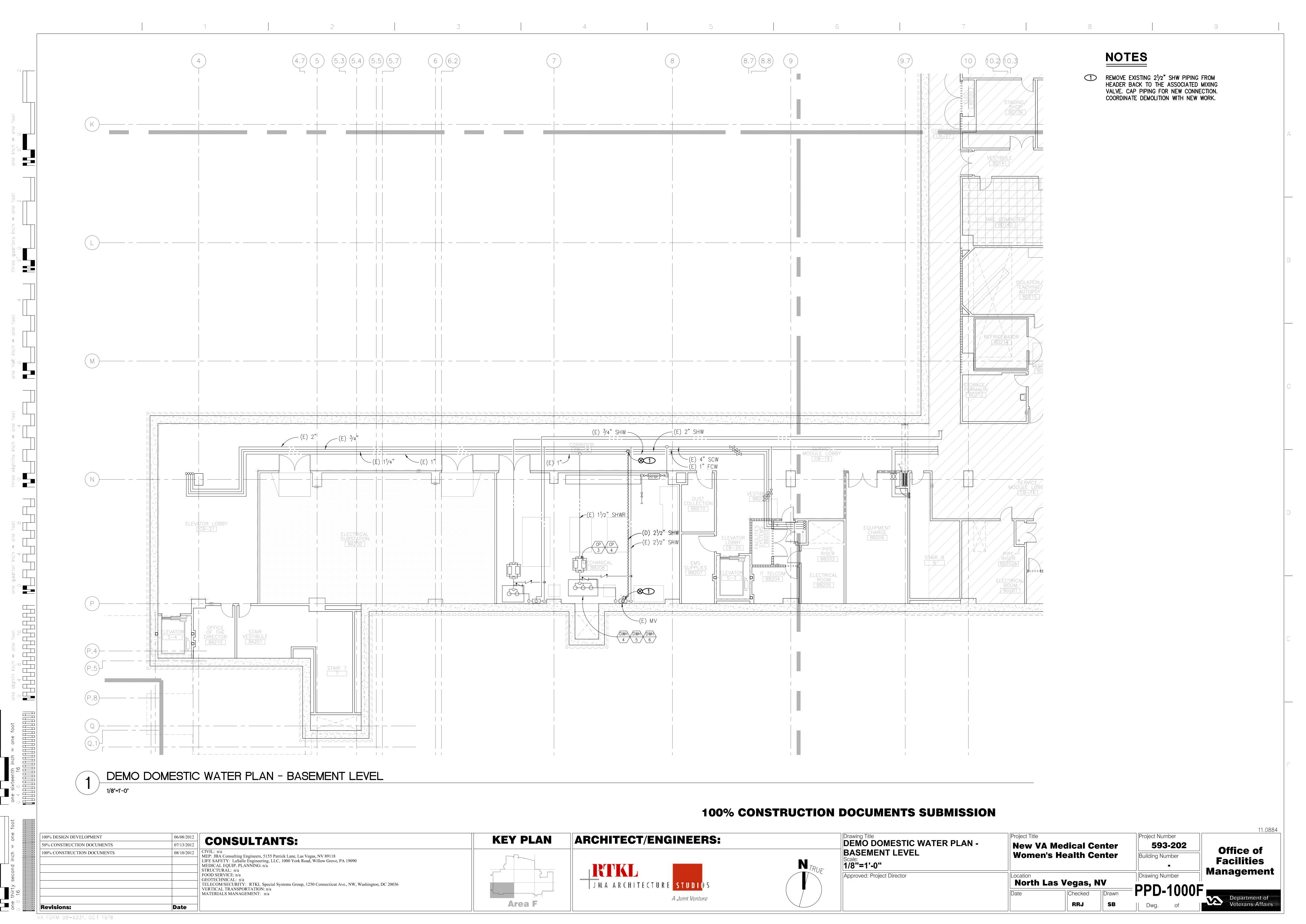
PLUMBING ABBREVIATION LIST								
	(THIS IS A MASTER LIST. NOT ALL	ABBREVIATIONS MAY	Y APPEAR ON DRAWINGS.)					
AD	ACCESS DOOR / AREA DRAIN	MCA	MINIMUM CIRCUIT AMPS					
AFF	ABOVE FINISH FLOOR	MCC	MOTOR CONTROL CENTER					
AP	ACCESS PANEL	MH	MANHOLE					
AUTO	AUTOMATIC	MIN	MINIMUM					
BMS	BUILDING MANAGEMENT SYSTEM	MOCP	MAXIMUM OVER CURRENT PROTECTION					
BOH	BACK OF HOUSE	NA	NOT APPLICABLE					
BOS	BOTTOM OF STEEL	NEC	NATIONAL ELECTRICAL CODE					
BTU	BRITISH THERMAL UNIT	NFPA						
		NIC	NOT IN CONTRACT					
. C	DEGREES CELSIUS	NPSHA						
CFH	CUBIC FEET PER HOUR	NPSHR						
CFM	CUBIC FEET PER MINUTE	NPT	NATIONAL PIPE THREAD					
CP	CHROME PLATED	NTS	NOT TO SCALE					
DC	DIRECT CURRENT	OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED					
DDC	DIRECT DIGITAL CONTROL	5. 5.	· · · · · · · · · · · · · · · · · · ·					
DDCFP	DIRECT DIGITAL CONTROL FIELD PANEL	Р	PUMP					
DF	DRINKING FOUNTAIN	PA	PRESSURE AVAILABLE					
DIA (Ø)	DIAMETER	PD	PRESSURE DROP					
DN	DOWN	PDI	PLUMBING DRAINAGE INSTITUTE					
_	EVICTING	PH	PHASE CONNECTION					
E	EXISTING	POC	POINT OF CONNECTION					
EFF EMCS	EFFICIENCY ENERGY MANAGEMENT CONTROL SYSTEM	POD POS	POINT OF DISCONNECT PROVIDE BY OTHER SECTION					
EMICS	EXPANSION TANK	PRV	PRESSURE REDUCING VALVE					
EWC	ELECTRIC WATER COOLER	PSI	POUND PER SQUARE INCH					
LIIO	ELEGINIO WITER GOOLER	PSIA	POUND PER SQUARE INCH ABSOLUTE					
° F	DEGREES FAHRENHEIT	PSIG	POUND PER SQUARE INCH GAUGE					
FCO	FLOOR CLEAN OUT							
FH	FIRE HYDRANT	RPM	REVOLUTIONS PER MINUTE					
FLA	FULL LOAD AMPS	_						
FPM	FEET PER MINUTE	S	SINK, SOIL					
FPS	FEET PER SECOND	SEER	SEASONAL ENERGY EFFICIENCY RATIO					
FT FU	FEET / FLUSH TANK FIXTURE UNITS	SH SOV	SHOWER / STATIC HEAD SHUT-OFF VALVE					
FV	FLUSH VALVE	SP	STATIC PRESSURE					
• •	TEOSIT VALVE	SQ FT (中)	SQUARE FEET					
GAL	GALLONS	SS	SERVICE SINK / STAINLESS STEEL					
GPH	GALLONS PER HOUR		,					
GPM	GALLONS PER MINUTE	T	TEMPERATURE					
		TAB	TESTING AND BALANCING					
H	HEIGHT	TDH	TOTAL DEVELOPED HEAD					
HD	HEAD	TEL	TOTAL EQUIVALENT LENGTH					
HOA	HAND OFF AUTO	TOS	TOP OF STEEL					
HP HR	HORSEPOWER HOUR	TP TS	TRAP PRIMER TEMPERING STATION					
HS	HAND SINK	TW	TEMPERED WATER					
HZ	HERTZ	TYP	TYPICAL					
IBC	INTERNATIONAL BUILDING CODE	U	URINAL					
IE .	INVERT ELEVATION	UMC	UNIFORM MECHANICAL CODE					
IFC IFCC	INTERNATIONAL FIRE CODE	UNO	UNLESS NOTED OTHERWISE					
IFGC IMC	INTERNATIONAL FUEL GAS CODE INTERNATIONAL MECHANICAL CODE	UPC	UNIFORM PLUMBING CODE					
IN	INCH	V	VENT, VOLTS					
IPC	INTERNATIONAL PLUMBING CODE	▼	· · · · · · · · · · · · · · · · · · ·					
		W	WIDTH, WASTE, WATT					
KW	KILOWATT	WC	WATER CLOSET					
		WFU	WATER FIXTURE UNITS					
L	LENGTH, LAVATORY	WG	WATER GAUGE					
LAV	LAVATORY	WH WD	WATER HEATER					
LBS	POUNDS	WP WPD	WATER PRESSURE WATER PRESSURE DROP					
MAX	MAXIMUM	WED	WATEN FINESOINE DINOP					
MBH	1000 BRITISH THERMAL UNITS PER HOUR							

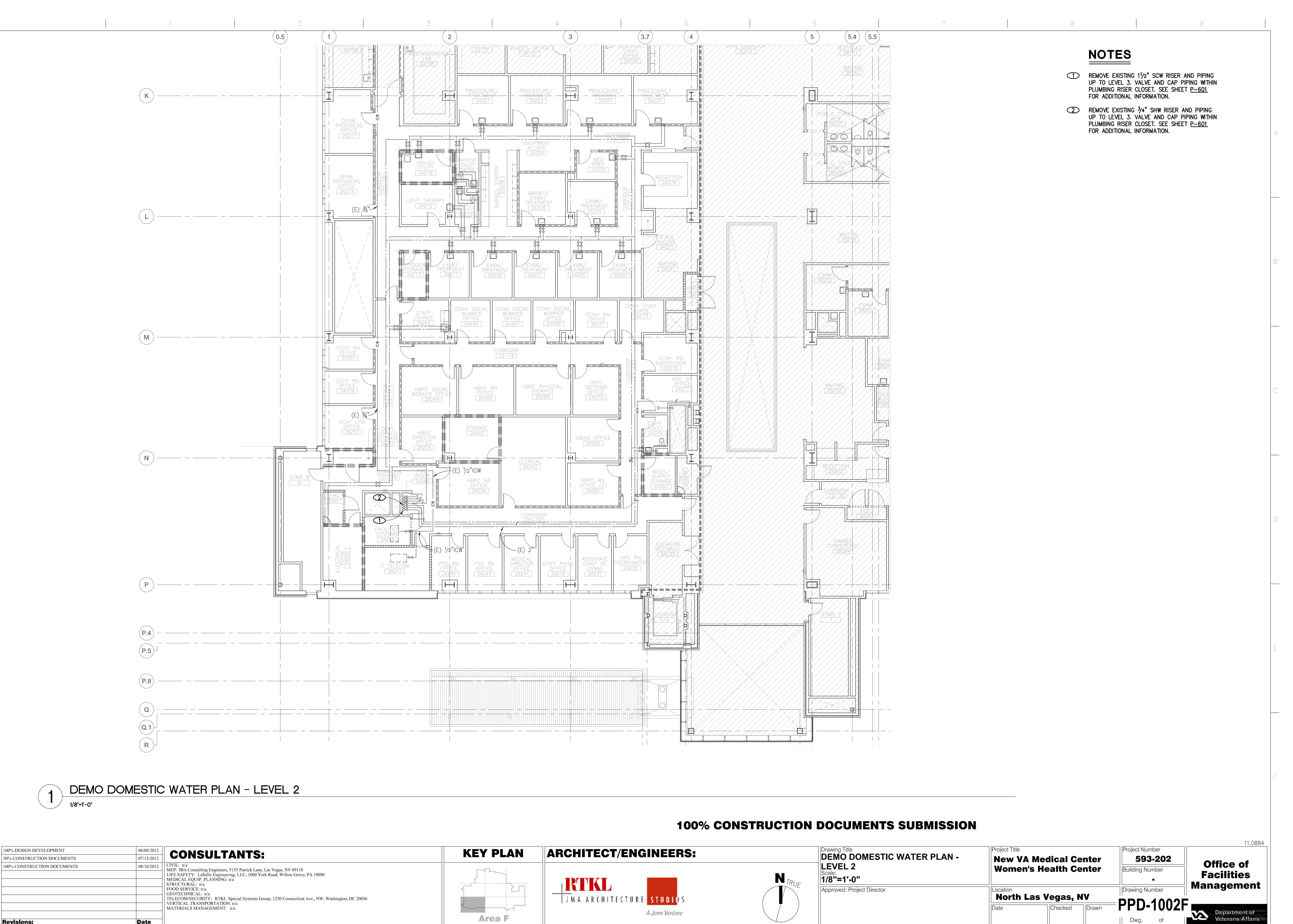
100% CONSTRUCTION DOCUMENTS SUBMISSION

									11.0884
	100% DESIGN DEVELOPMENT	06/08/2012	CONSULTANTS:	KEY PLAN	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project Number	
	50% CONSTRUCTION DOCUMENTS	07/13/2012	CONSULTANTS:	IXE I FEAT	Altolli Loi, Litalite Litai	PLUMBING SHEET INDEX GENERAL	New VA Medical Center	593-202	Office of
	100% CONSTRUCTION DOCUMENTS	08/10/2012	CIVIL: n/a MEP: JBA Consulting Engineers, 5155 Patrick Lane, Las Vegas, NV 89118			NOTES SYMB AND ABBR. LIST	Women's Health Center	Building Number	Office of
	OWNER'S REVIEW COMMENTS	JAN. 25, 201	LIFE SAFETY: LaSalle Engineering, LLC, 1000 York Road, Willow Grove, PA 19090 MEDICAL EQUIP. PLANNING: n/a			Scale: NTC			Facilities
			STRUCTURAL: n/a						Management
			FOOD SERVICE: n/a GEOTECHNICAL: n/a			Approved: Project Director	Location North Loc Vocace NV	Drawing Number	
			TELECOM/SECURITY: RTKL Special Systems Group, 1250 Connecticut Ave., NW, Washington, DC 20036 VERTICAL TRANSPORTATION: n/a		JMA ARCHITECTURE STUDIOS		North Las Vegas, NV	P-001	
16			MATERIALS MANAGEMENT: n/a		A Joint Venture		Date Checked Drawn	F-001	Department of
	Revisions:	Date		Area F	A down venture			Dwg. of	Department of Veterans Affairs

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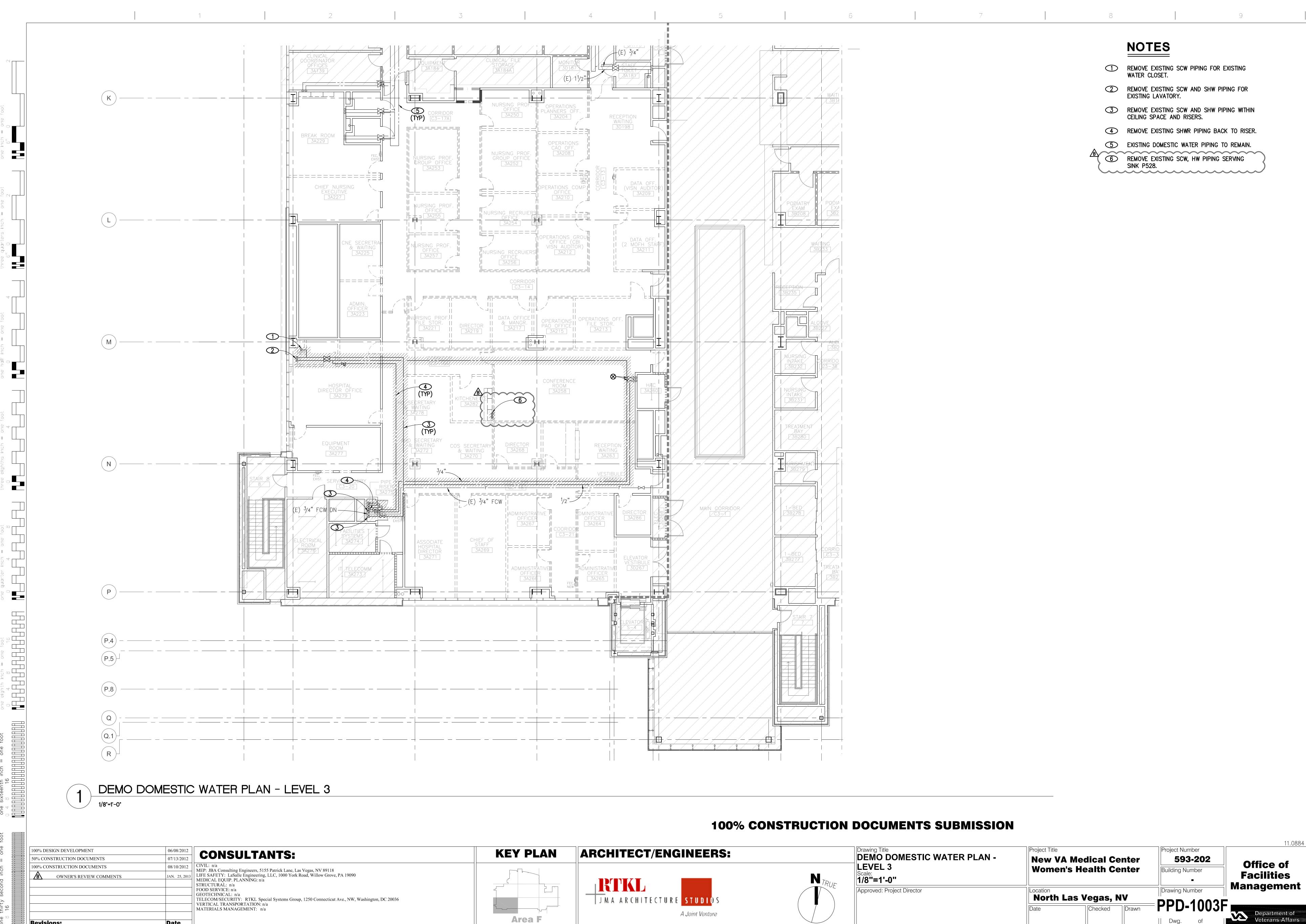




Revisions:

VA FORM 08-6231, OCT 1978

Date

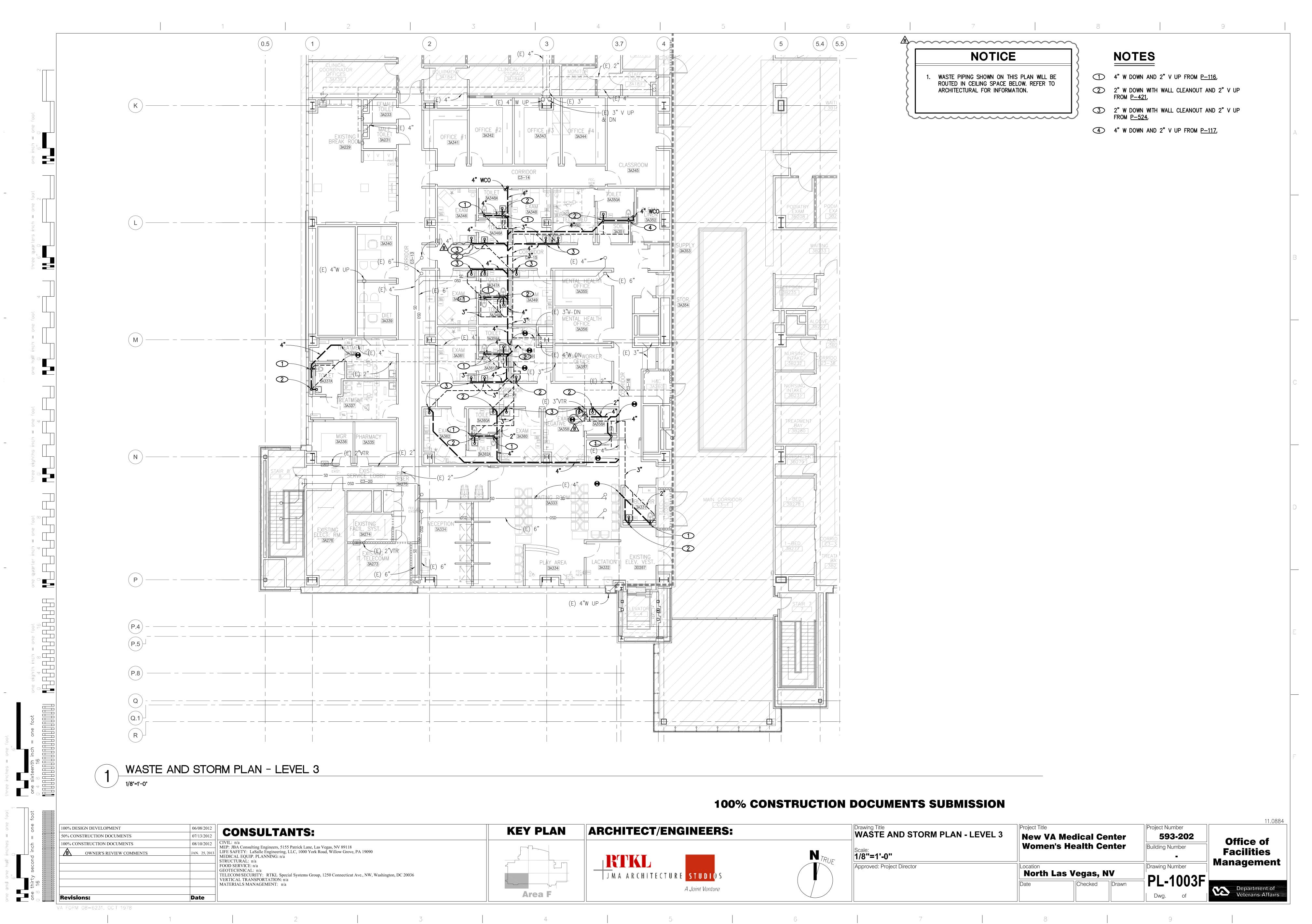


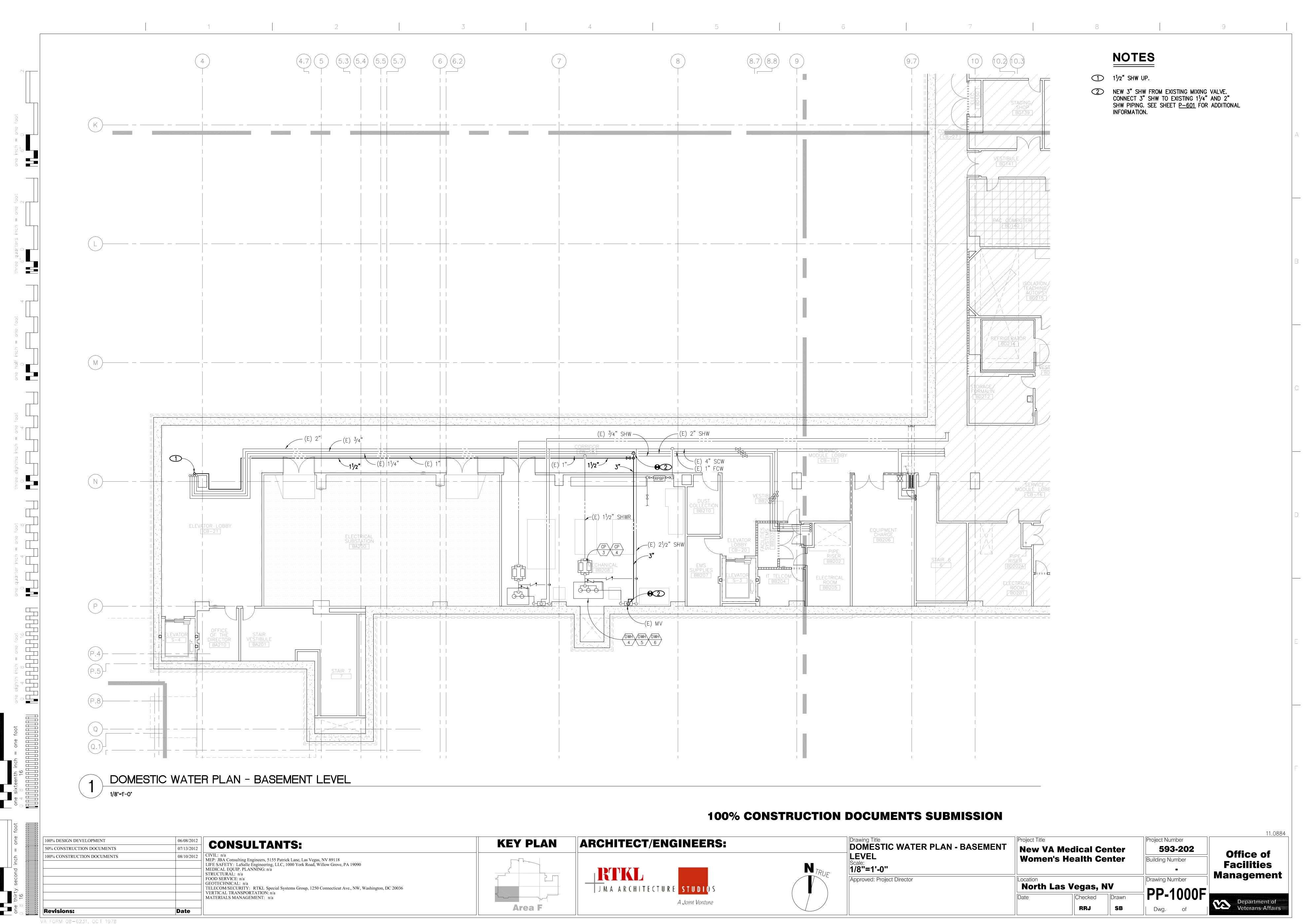
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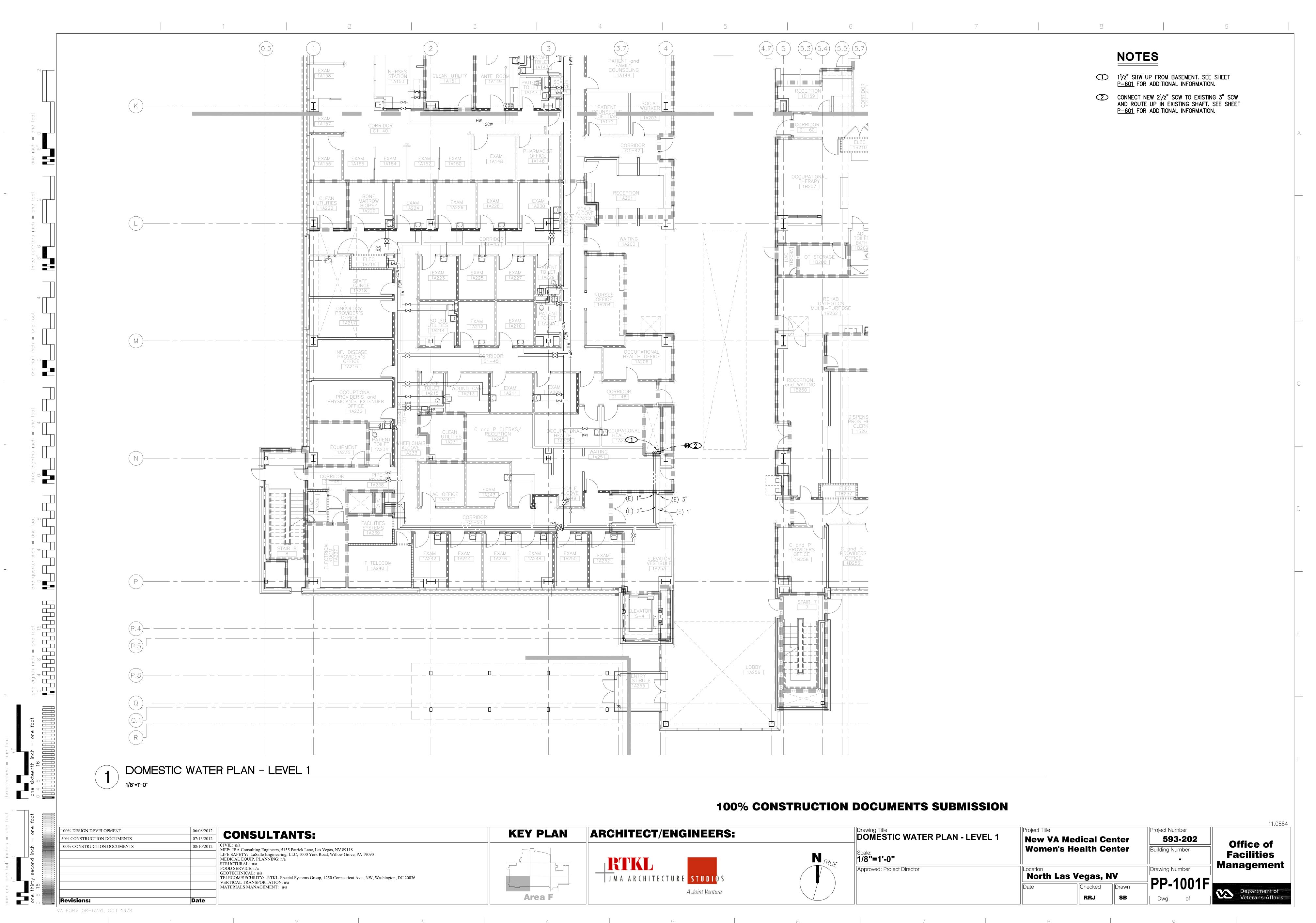
VA FORM 08-6231, OCT 1978

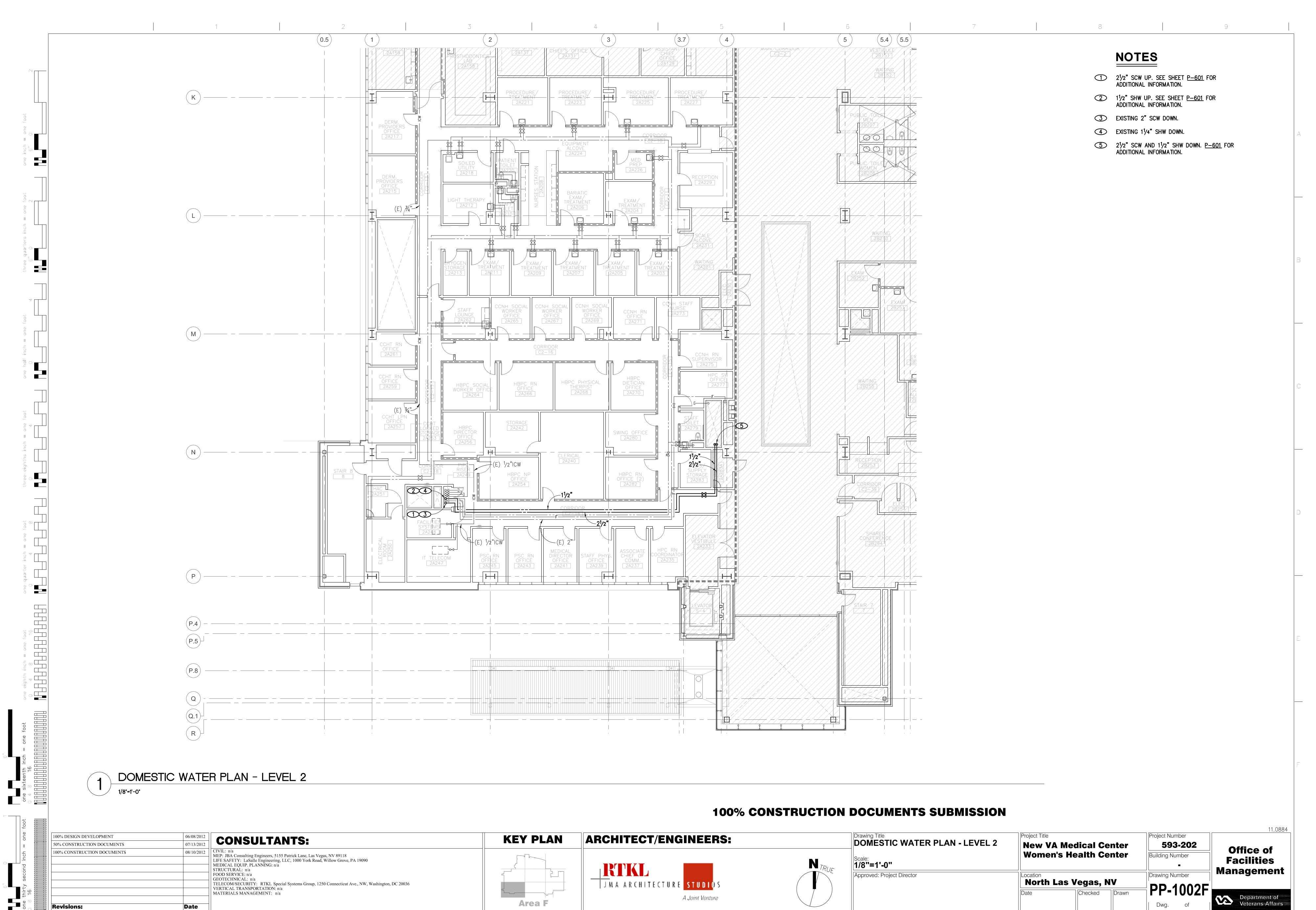
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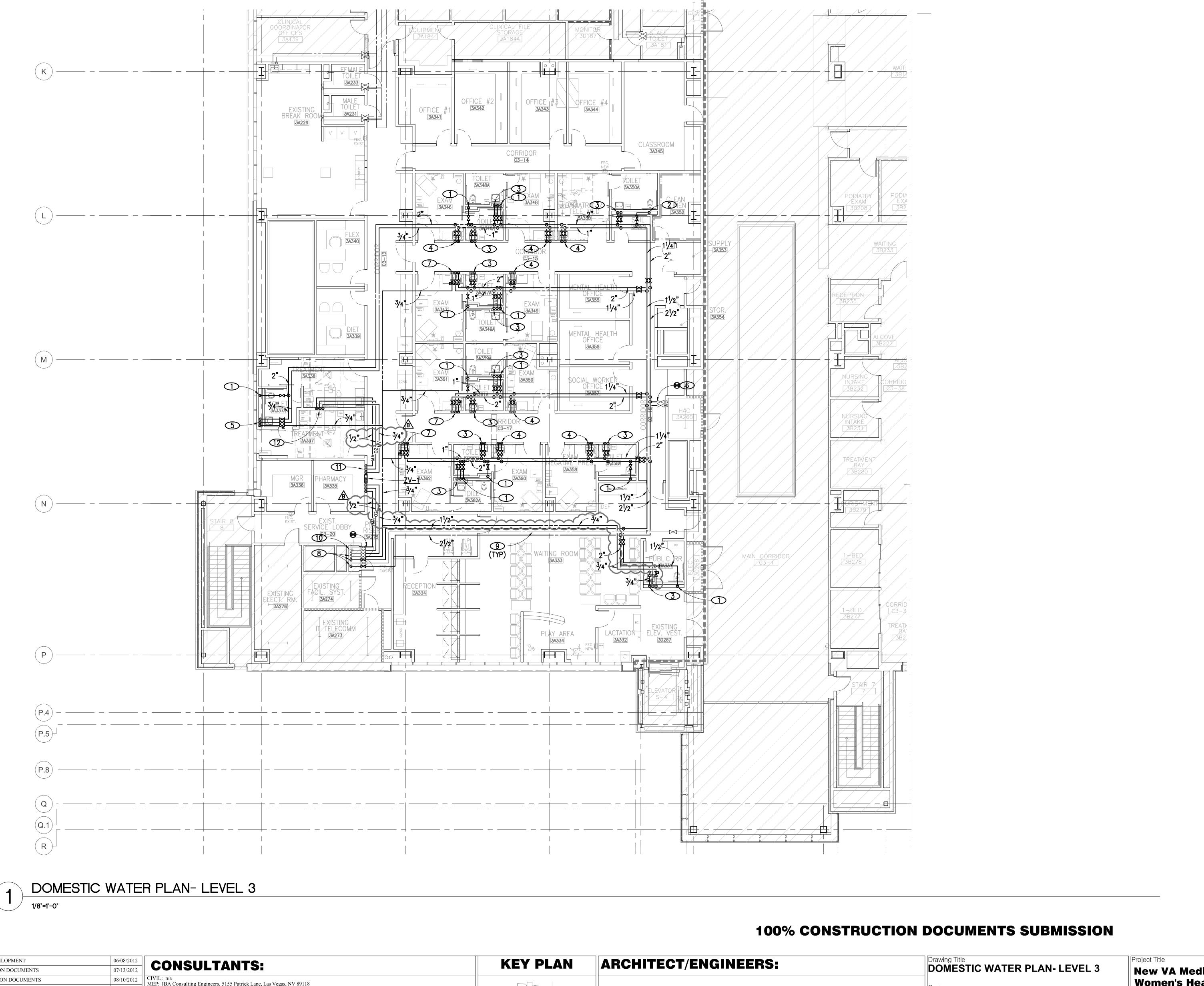








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NOTES

1 $\frac{1}{2}$ SCW DOWN TO <u>P-116</u>.

2 $1\frac{1}{2}$ SCW DOWN TO P-117.

3/4" SCW AND SHW DOWN TO <u>P-421</u>.

 $\frac{3}{4}$ " SCW AND SHW DOWN TO <u>P-524</u>.

 3 /4" SCW, SHW, AND SHWR DOWN TO <u>P-421</u>. CONNECT SHWR PIPING TO SHW IN VERTICAL.

6 CONNECT 3/4" SCW AND SHW TO EXISTING 3/4" SCW AND SHW FOR EXISTING SERVICE SINK.

7 3/4" SCW, SHW, AND SHWR DOWN TO <u>P-524</u>. CONNECT SHWR PIPING TO SHW IN VERTICAL.

8 $2\frac{1}{2}$ " SCW, $1\frac{1}{2}$ " SHW, AND EXISTING $\frac{3}{4}$ " SHWR DOWN. SEE SHEET <u>P-601</u> FOR ADDITIONAL INFORMATION.

9 EXISTING FCW PIPING AND RISER TO REMAIN.

10 EXISTING 1/2" 02, 1/2" MA, AND 3/4" MV PIPING DOWN. SEE SHEET P-602 FOR ADDITIONAL INFORMATION.

11) 1/2" 02, 1/2" MA, AND 3/4" MV UP TO ABO

1/2" 02, 1/2" MA, AND 3/4" MV DOWN TO HEAD

11.0884 Project Number 100% DESIGN DEVELOPMENT **New VA Medical Center** 593-202 50% CONSTRUCTION DOCUMENTS Office of JAN. 25, 2013

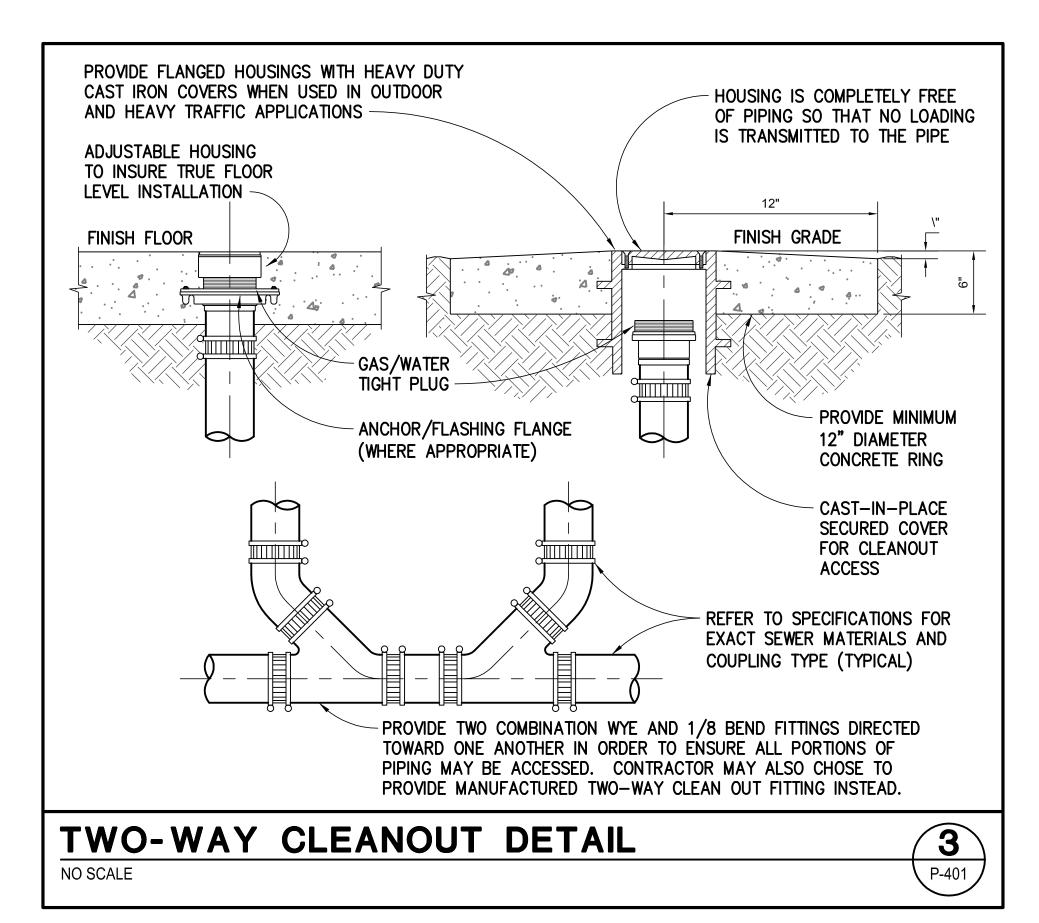
MEP: JBA Consulting Engineers, 5155 Patrick Lane, Las Vegas, NV 89118

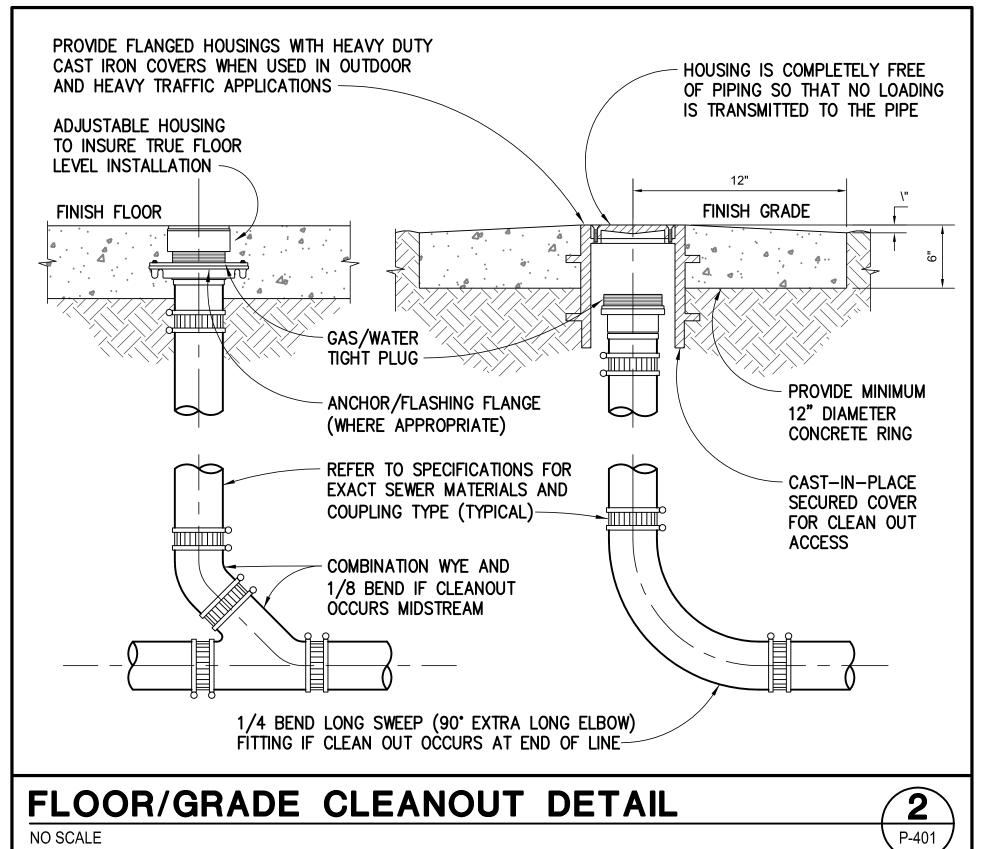
LIFE SAFETY: LaSalle Engineering, LLC, 1000 York Road, Willow Grove, PA 19090

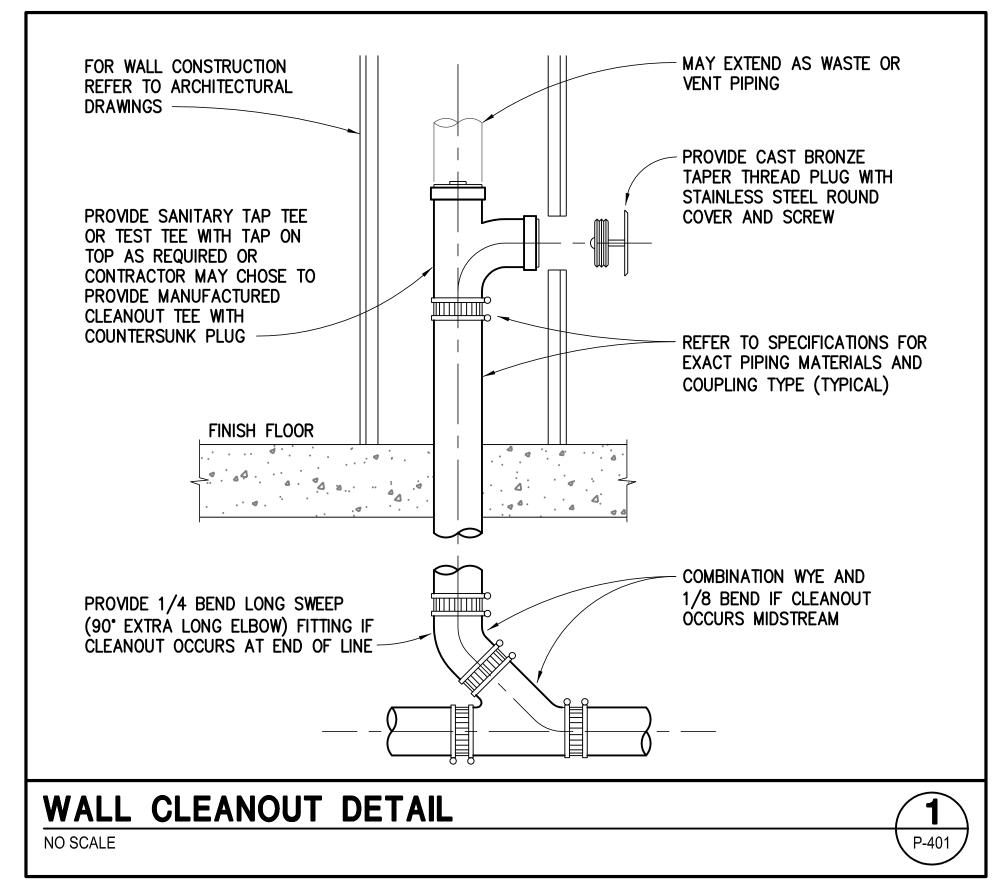
MEDICAL EQUIP. PLANNING: n/a

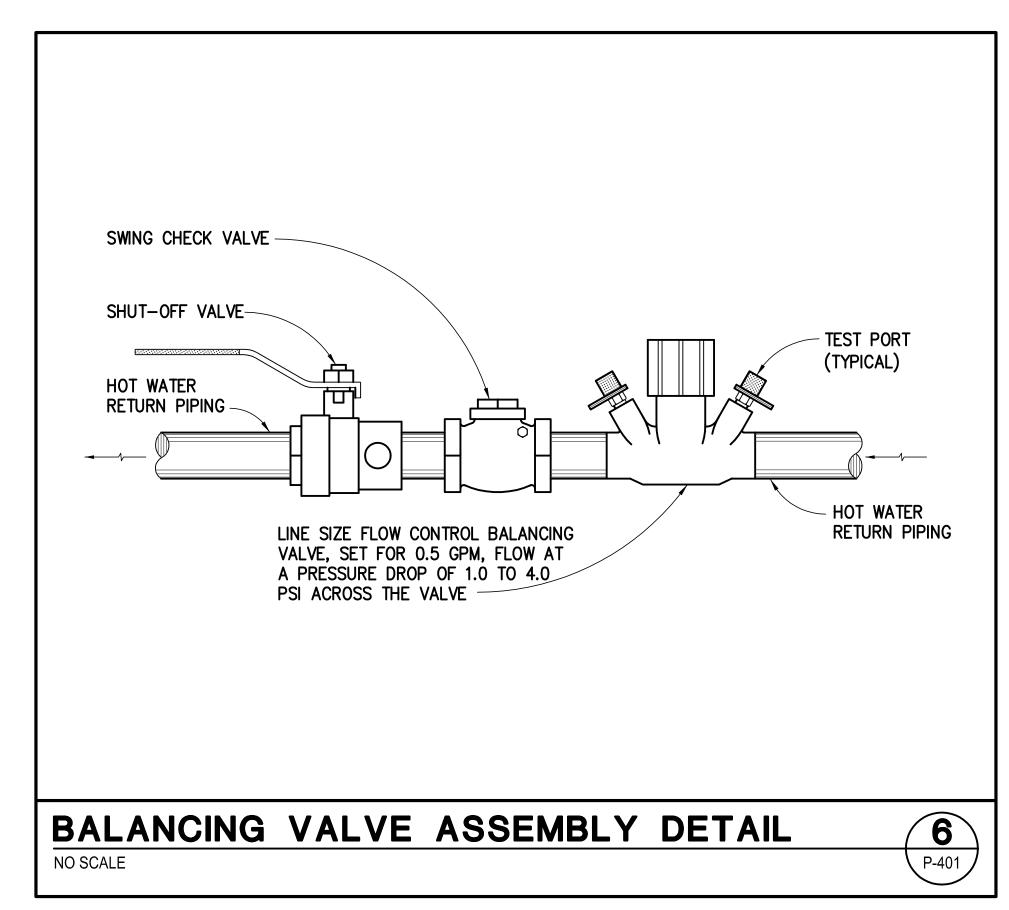
STRUCTURAL: n/a 100% CONSTRUCTION DOCUMENTS **Women's Health Center Building Number Facilities** N TRUE OWNER'S REVIEW COMMENTS 1/8"=1'-0" RTKL Management FOOD SERVICE: n/a Approved: Project Director Drawing Number GEOTECHNICAL: n/a J M A ARCHITECTURE STUDIOS North Las Vegas, NV TELECOM/SECURITY: RTKL Special Systems Group, 1250 Connecticut Ave., NW, Washington, DC 20036 VERTICAL TRANSPORTATION: n/a Checked MATERIALS MANAGEMENT: n/a Department of Veterans Affairs A Joint Venture Dwg. **Revisions:** Date

VA FORM 08-6231, OCT 1978

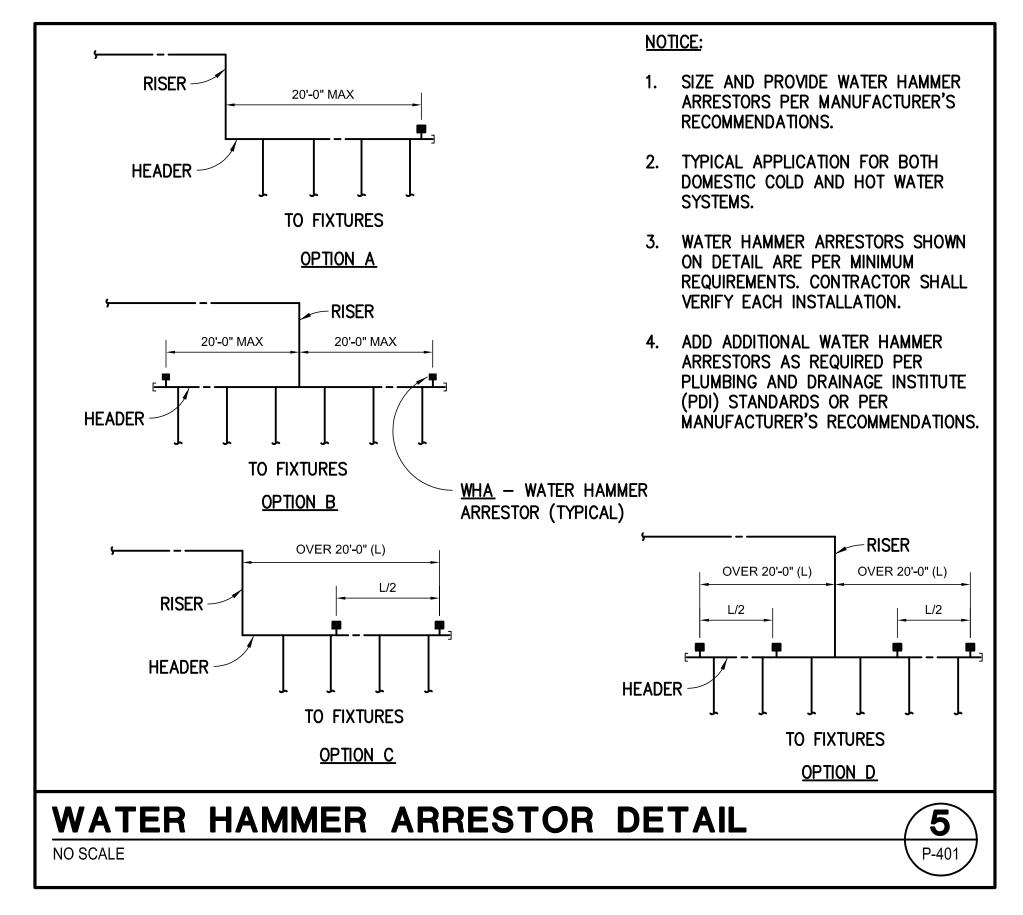


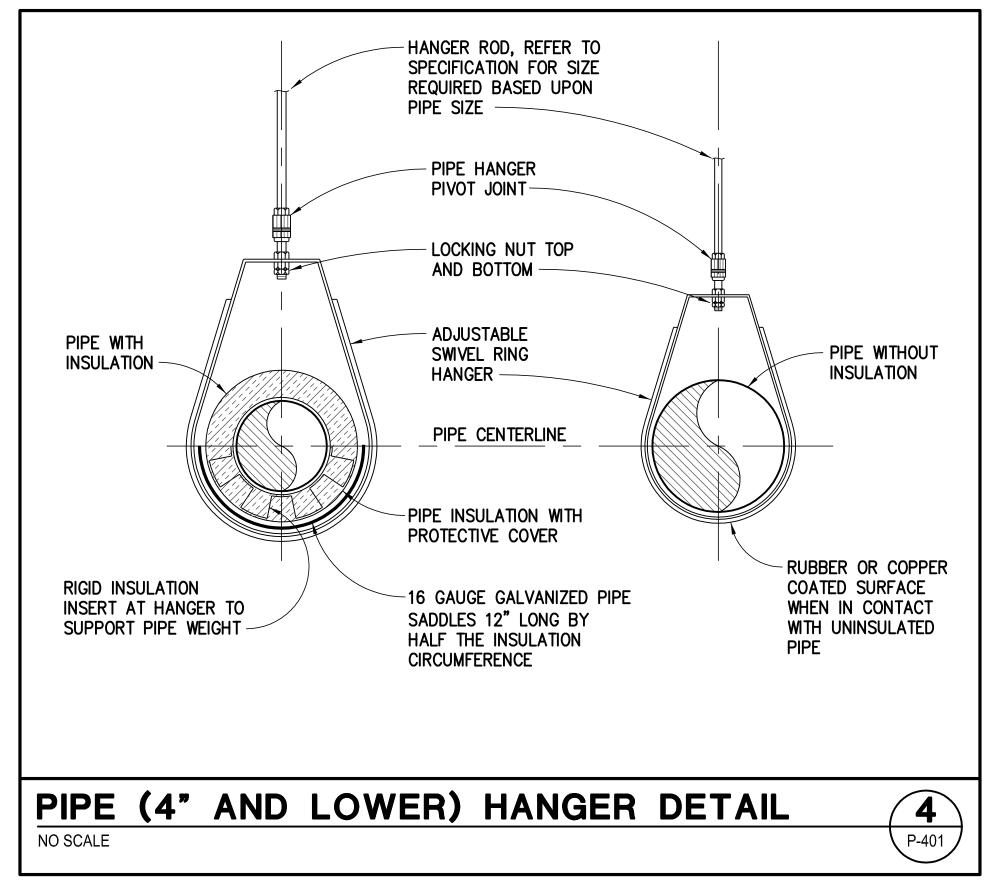






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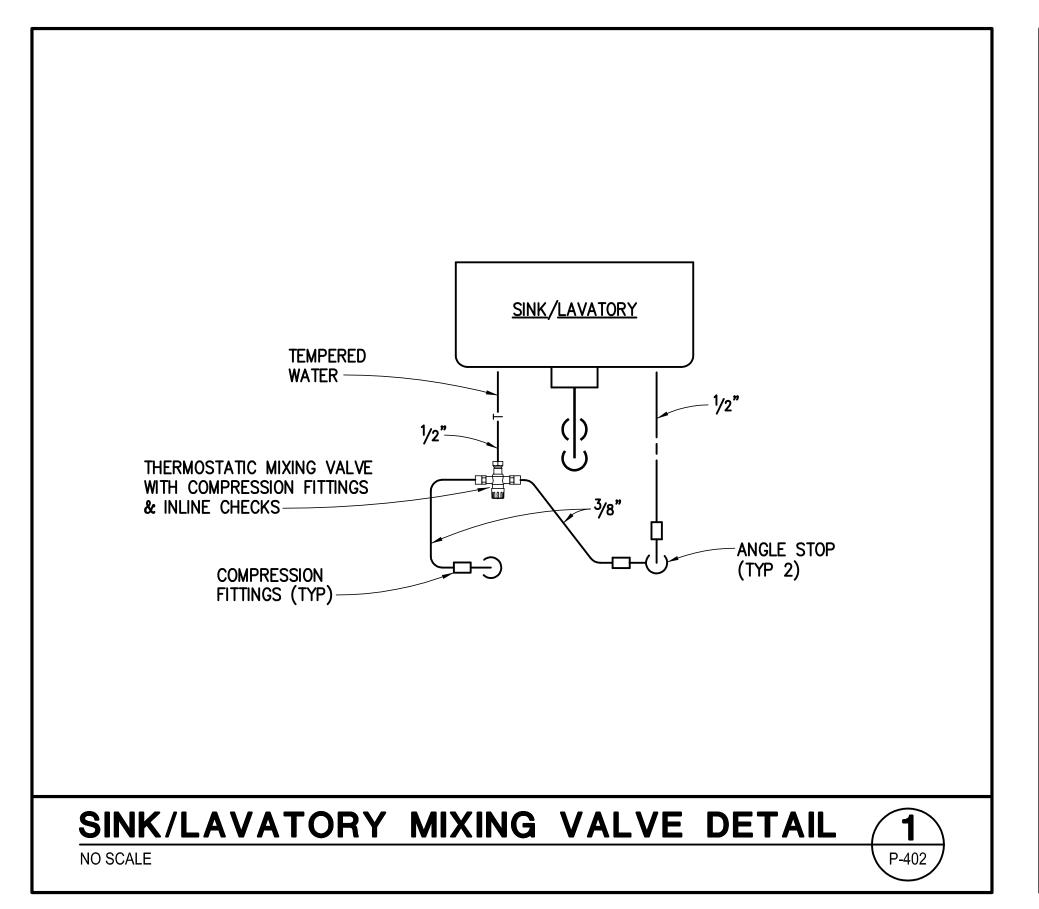




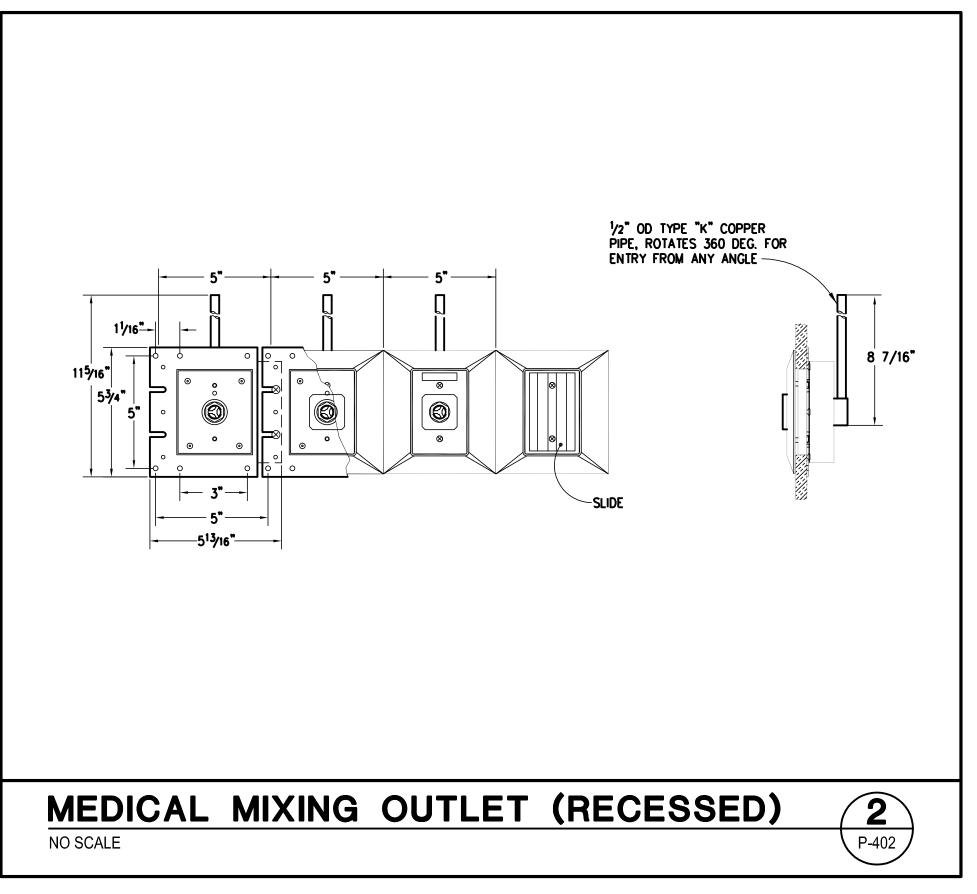
100% CONSTRUCTION DOCUMENTS SUBMISSION

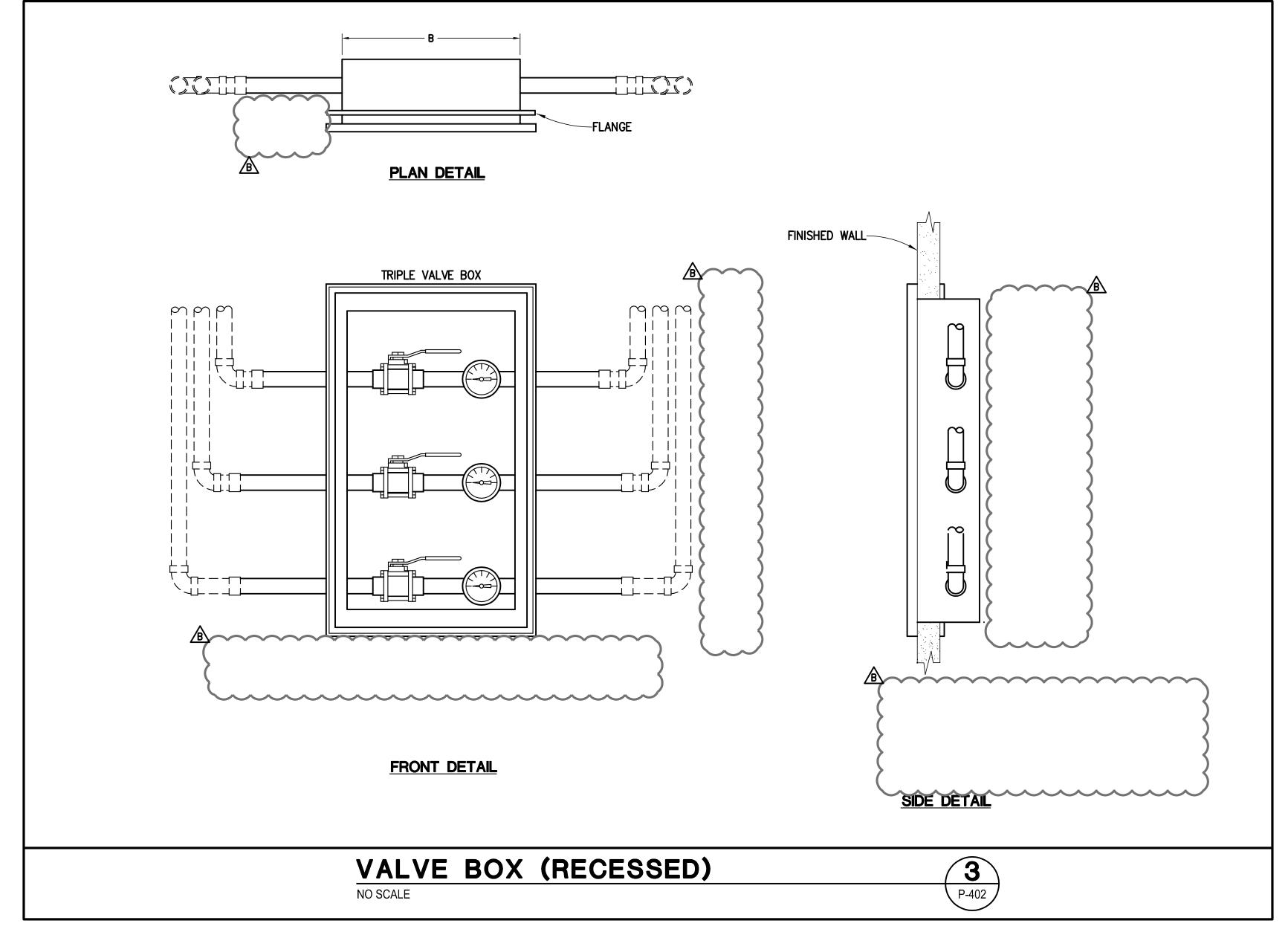
							11.0884
100% DESIGN DEVELOPMENT	06/08/2012 07/13/2012 CONSULTANTS:	KEY PLAN	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project Number	
50% CONSTRUCTION DOCUMENTS	07/13/2012 CONSCLIANTS.		Aliginization	PLUMBING - DETAILS	New VA Medical Center	593-202	Office of
100% CONSTRUCTION DOCUMENTS	08/10/2012 CIVIL: n/a MEP: JBA Consulting Engineers, 5155 Patrick Lane, Las Vegas, NV 89118				Women's Health Center	Building Number	
	LIFE SAFETY: LaSalle Engineering, LLC, 1000 York Road, Willow Grove, PA 19090 MEDICAL EQUIP. PLANNING: n/a		, TOTATA T	NTS			Facilities
	STRUCTURAL: n/a				I costion	Duanda a Niveria a r	┤ Management │
	FOOD SERVICE: n/a GEOTECHNICAL: n/a TELEGOM/GEORGE PREVIOUS AND			Approved: Project Director	North Las Vegas, NV	Drawing Number	
	TELECOM/SECURITY: RTKL Special Systems Group, 1250 Connecticut Ave., NW, Washington, DC 20036 VERTICAL TRANSPORTATION: n/a		JMA ARCHITECTURE STUDIOS			─ P-401	
	MATERIALS MANAGEMENT: n/a		A Joint Venture		Date Checked Drawn	I -+V I	Department of
Revisions:	Date	Area F				Dwg. of	Department of Veterans Affairs

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VA FORM 08-6231, OCT 1978





100% CONSTRUCTION DOCUMENTS SUBMISSION

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100% DESIGN DEVELOPMENT 06/08/2012 CONSULTANTS: CONSULTANT	Project Title	Project Number	
50% CONSTRUCTION DOCUMENTS 07/13/2012 CONSULTANTS: REYPLAN ARCHITECT/ENGINEERS:	New VA Medical Center	593-202	
100% CONSTRUCTION DOCUMENTS 08/10/2012 CIVIL: n/a MEP: JBA Consulting Engineers, 5155 Patrick Lane, Las Vegas, NV 89118	Women's Health Center	Building Number	Office of
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NTS NTS MEDICAL EQUIP. PLANNING: n/a STRUCTURAL: n/a FOOD SERVICE: n/a		•	Management
GEOTECHNICAL: n/a	Location	Drawing Number	managomoni
TELECOM/SECURITY: RTKL Special Systems Group, 1250 Connecticut Ave., NW, Washington, DC 20036 VERTICAL TRANSPORTATION: n/a	North Las Vegas, NV	D 400	
E O E MATERIALS MANAGEMENT: n/a	Date Checked Drawn	P-402	
Area F		Dwg of	Department of Veterans Affairs

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PIP	E MATERIALS SCHEDULE					
SERVICE	MATERIALS					
DOMESTIC WATER	TYPE L COPPER ABOVE GRADE, TYPE K COPPER BELOW GRADE.					
SOIL, WASTE AND VENT	CAST IRON SOIL PIPE WITH NO-HUB FITTINGS ABOVE GRADE, SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS BELOW GRADE.					

	PLUMBING FIXTURE SCHEDULE										
ITEM	FIXTURE		ROUG	H-IN SIZES (IN	NCHES)		NOTES				
	FIXTURE	TW / HW	CW	VENT	TRAP	S OR W	NOTES				
P-116	WATER CLOSET	_	1	2	_	4	WALL MOUNTED, BACK OUTLET, MANUAL FLUSH VALVE				
P-117	WATER CLOSET	-	1	2	_	4	WALL MOUNTED, BACK OUTLET, MANUAL FLUSH VALVE				
P-421	LAVATORY	1/2	1/2	2	1-1/4 x 1-1/2	2	WALL MOUNTED, MANUAL FAUCET				
P-524	SINK	1/2	1/2	2	1-1/2	2	COUNTERTOP, SINGLE COMPARTMENT, MANUAL FAUCET				

PIPE SIZE (INCHES)	PDI SYMBOL	NOTES
1/2	Α	2
3/4	A	2
1	В	2
1-1/4	В	2
1-1/2	С	2
2	D	2
2-1/2	F	2

- 1. PDI = PLUMBING DRAINAGE INSTITUTE STANDARDS.
- 2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

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WATER PIPE SIZING CHART

STATIC HEAD (SH) = 60 FEET x 0.43 = 25.8 PSI

PRESSURE AVAILABLE (PA) = 117 SERVICE PRESSURE - (25.8 (SH) + 35 REQ. PRESSURE + 0 METER) = 56.20 PSI (PA)

DEVELOPED LENGTH LONGEST RUN = 1500 FEET

25 % FITTINGS LENGTH = 375 FEET

TOTAL EQUIVALENT LENGTH (TEL) = 1875 FEET

ALLOWABLE FRICTION LOSS/100FT = 100 X 56.2 PSI (PA) = 3.0 PSI/100FT

1875 FT (TEL)

PIPE SIZE (INCHES)	MAXIMUM FLOW (GPM)		FLUSH TANK (FU)		FLUSH VALVE (FU)		VELOCITY (FPS)	
	COLD WATER	HOT WATER	COLD WATER	HOT WATER	COLD WATER	HOT WATER	COLD WATER	HOT WATER
1/2	1.0	1.0	0	0	0	0	1.6	1.6
3/4	3.5	3.5	3	3	0	0	2.5	2.5
1	7.5	7.5	8	8	0	0	3.1	3.1
1–1/4	15.0	15.0	21	21	0	0	3.9	3.9
1–1/2	22.0	22.0	34	34	5	5	4.0	4.0
2	45.0	45.0	107	107	37	37	4.6	4.6
2-1/2	80.0	75.0	275 250		148 128	5.2		
3	135.0	108.0	559	431	460	295	6.1	4.9
4	260.3	190.0	1418	874	1418	850	6.6	4.9
5	480.0	300.0	3620	1755	3620	1755	7.8	4.9

PLUMBING FIXTURE SPECIFICATIONS

PLUMBING FIXTURES

<u>WATER CLOSET (P-116)</u>: WALL MOUNTED, REAR OUTLET, ELONGATED BOWL, 1.6 GPF, FLUSH VALVE, WHITE VITREOUS CHINA, TOP SPUD. LOW CONSUMPTION, TOP SPUD, 1.6 GPF, EXPOSED, MANUAL OPERATED FLUSH VALVE. ELONGATED, OPEN FRONT, WHITE SEAT WITH CHECK HINGES, ANTI-MICROBIAL AGENT, LESS COVER. (ADA COMPLIANT)

WATER CLOSET (P-117): WALL MOUNTED, REAR OUTLET, EXTRA LARGE ELONGATED COMFORT SIZED RIM, 1.6 GPF, FLUSH VALVE, SEAMLESS WELDED #16 GAGE TYPE 304 STAINLESS STEEL BARIATRIC EXTRA HEAVY DUTY, BACK SPUD. LOW CONSUMPTION, BACK SPUD, 1.6 GPF, CONCEALED, MANUAL OPERATED FLUSH VALVE. ELONGATED, OPEN FRONT, MATCHING COMFORT SIZED POLYPROPYLENE SEAT WITH INTEGRAL SELF—CENTERING SAFETY BUMPERS TO PREVENT PATIENT WEIGHT SHIFTS, ANTI—MICROBIAL AGENT, LESS COVER. PROVIDE WITH ADJUSTABLE BARIATRIC CARRIER RATED FOR 1000 LBS STATIC LOAD. TOILET SYSTEM, INCLUDING CARRIER, MUST BE LOAD TESTED TO WITHSTAND 1000 LBS WITHOUT SIGNIFICANT DEFLECTION WHEN INSTALLED. (ADA COMPLIANT)

LAVATORY (P-421): WALL MOUNTED, WHITE VITREOUS CHINA, 4" CENTERS, 21-1/4" x 18-1/8" LAVATORY WITH OVERFLOW AND HANGER DECK MOUNTED 8" WIDESPREAD, 2.2 GPM MULTI-STREAM AERATOR, CHROME PLATED, HARD WRED, SENSOR OPERATED RIGID/SWING GOOSENECK SPOUT, 4" WRISTBLADE HANDLES BRASS CONSTRUCTION, 1-1/4" TAILPIECE CONNECTION, 6" OFFSET AND GRID DRAIN. (ADA COMPLIANT)

SINK (P-524): COUNTERTOP MOUNTED, TYPE 304 STAINLESS STEEL, 3-HOLES, 4" CENTERS, 22" x 19-1/2" x 7-5/8" DEEP, SINGLE COMPARTMENT SINK WITH QUICK-CLIP MOUNTING SYSTEM. DECK MOUNTED 8" WIDESPREAD, 2.2 GPM MULTI-STREAM AERATOR, CHROME PLATED, RIGID/SWING GOOSENECK SPOUT, 4" WRISTBLADE HANDLES. TYPE 316 STAINLESS STEEL, BASKET STRAINER WITH METAL STEM AND RUBBER STOPPER. (ADA COMPLIANT)

SUPPLIES, TRAPS AND MISCELLANEOUS

SUPPLIES: FOR CONCEALED APPLICATIONS, CONNECT WATER CLOSETS, LAVATORIES AND SINKS WITH BALL VALVE ANGLE STOP WITH SS-16 16" STAINLESS STEEL CONNECTOR FOR LAVATORIES, SINKS; BALL VALVE ANGLE STOP WITH 12" STAINLESS STEEL CONNECTOR FOR WATER CLOSET. WHERE EXPOSED, PROVIDE CHROME PLATED FLEXIBLE TUBE-RISERS (PROVIDE OFFSET TAILPIECE AND INSULATE WASTE AND SUPPLIES AT ALL HANDICAPPED LAVATORIES AS REQUIRED.)

TRAPS: CHROME PLATED CAST BRASS WITH CLEANOUT PLUG AND TUBING OUTLET WITH TRAP ADAPTER AND ESCUTCHEON. PROVIDE OFFSET TAILPIECE AS REQUIRED.

CLEANOUT (CO): WALL, FLOOR INSIDE, OR FLOOR EXTERIOR CLEANOUT WITH SIZE AS NOTED ON FLOOR PLANS.

FLOOR DRAIN (FD): CAST IRON DRAIN BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD. STRAINER FINISH SHALL BE NICKEL BRONZE UNLESS LOCATION REQUIRES GRATE TO MATCH APPLICABLE FIXTURE FINISHES AS IN TOILET ROOMS OR OUTDOOR APPLICATIONS. 11–1/2" CAST IRON GRATE (MECHANICAL ROOM, TRASH DOCK AND HEAVY TRAFFIC AREAS).

FLOOR SINK (FS): COMMERCIAL ENAMELING CAST IRON DRAIN, 10" DEEP WITH ENAMELED CAST IRON HALF GRATE EXCEPT WHERE INDICATED OTHERWISE ON PLUMBING DRAWINGS.

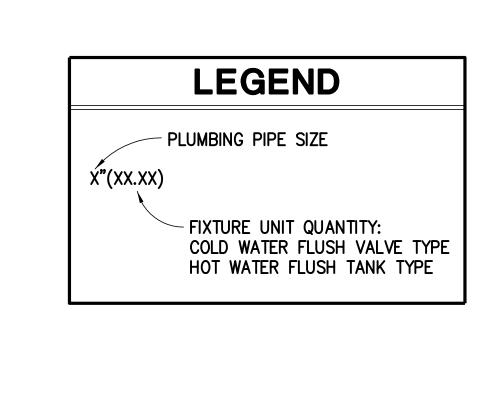
HOSE BIBB (HB): FREEZELESS HOSE BIBB WITH ANTI-SIPHON VACUUM BREAKER, 3/4" THREADED HOSE CONNECTION, REMOVABLE WHEEL HANDLE.

ICE MAKER BOX (IMB): STAINLESS STEEL, 1/2" x 1/4" COMPRESSION ANGLE STOP. FURNISH WITH 3'-0" OF 1/4" COILED TUBING.

ANGLE STOP ARRESTOR (ASA): MINI-ANGLE STOP ARRESTOR MODEL MM-50ASCP, 3/8" COMPRESSION, CHROME PLATED.

100% CONSTRUCTION DOCUMENTS SUBMISSION

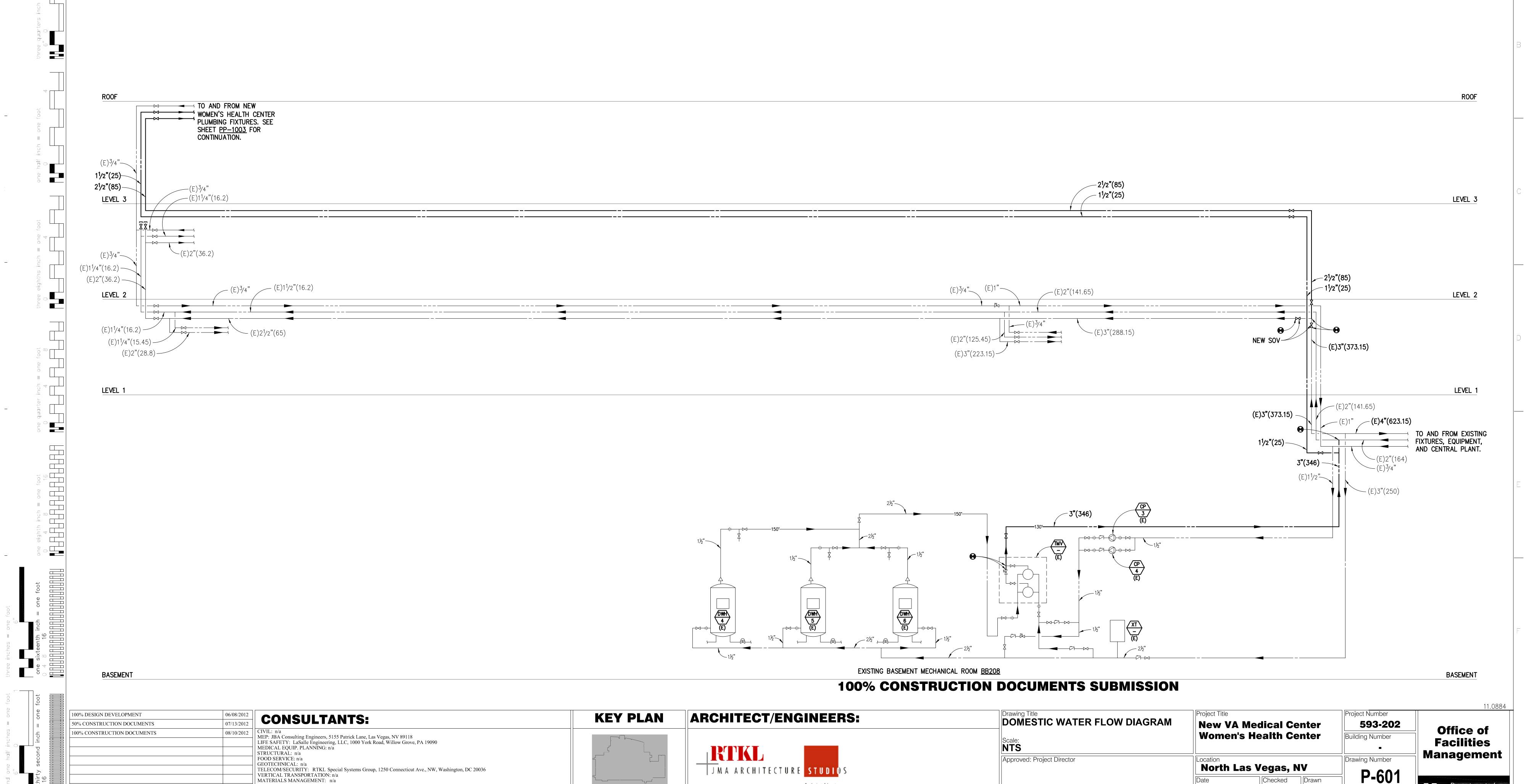
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PLUMBING SCHEDULES Project Title Project Number 100% DESIGN DEVELOPMENT **KEY PLAN** ARCHITECT/ENGINEERS: **CONSULTANTS: New VA Medical Center** 593-202 07/13/2012 50% CONSTRUCTION DOCUMENTS Office of 08/10/2012 100% CONSTRUCTION DOCUMENTS **Women's Health Center** MEP: JBA Consulting Engineers, 5155 Patrick Lane, Las Vegas, NV 89118 **Building Number Facilities** IAN 25 2013 LIFE SAFETY: LaSalle Engineering, LLC, 1000 York Road, Willow Grove, PA 19090 OWNER'S REVIEW COMMENTS RTKL MEDICAL EQUIP. PLANNING: n/a STRUCTURAL: n/a Management Approved: Project Director FOOD SERVICE: n/a Drawing Number GEOTECHNICAL: n/a North Las Vegas, NV JMA ARCHITECTURE STUDIOS TELECOM/SECURITY: RTKL Special Systems Group, 1250 Connecticut Ave., NW, Washington, DC 20036 VERTICAL TRANSPORTATION: n/a Checked MATERIALS MANAGEMENT: n/a Department of Veterans Affairs A Joint Venture Dwg. **Revisions:** Date



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Department of Veterans Affairs



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Revisions:

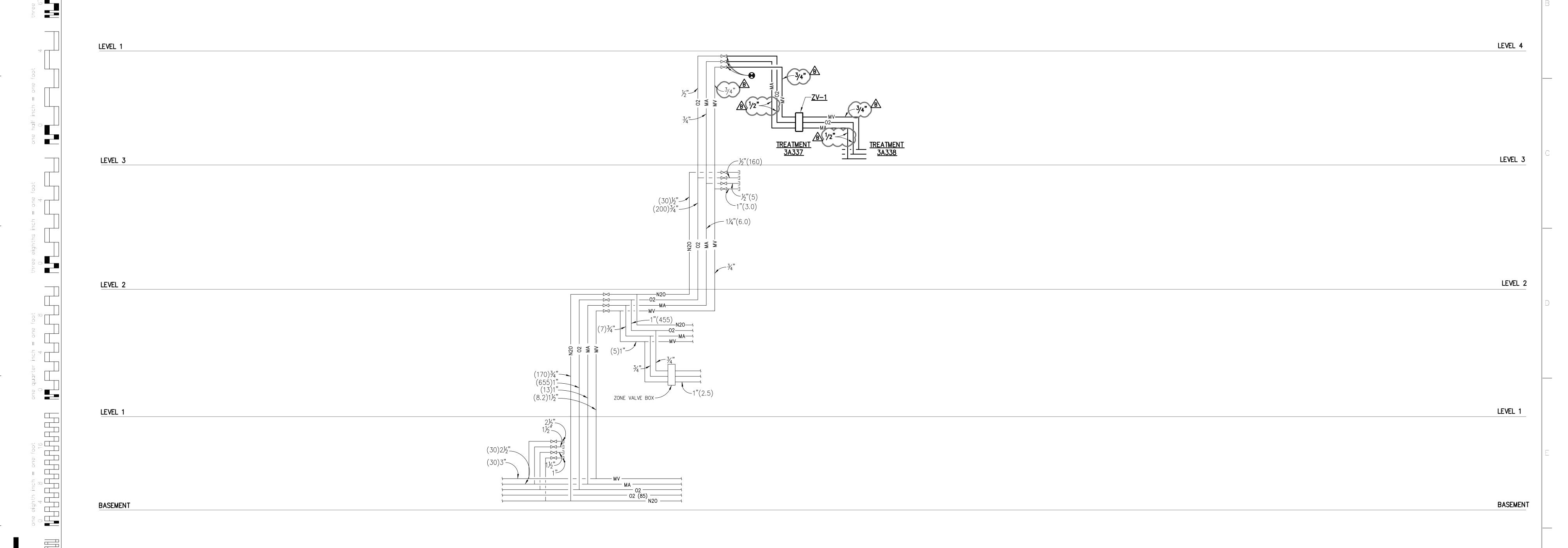
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Date

LEGEND

OXYGEN = L.P.M. MA & MV = CFM

NOTE: INSTALL PRESSURE SWITCH DOWNSTREAM OF ZONE VALVES PER (NFPA 99).



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